

ANNEX I
SPECIFICS REQUIREMENTS FOR EACH PROGRAM

Graduate Program	Master's	Doctoral
Administration	Graduates in: Administration or related field. Proficiency Portuguese or Spanish.	Graduates in: Administration or related field. Master's degree in: any field Proficiency in Portuguese or Spanish.
Agrochemistry	Graduates in: Chemistry, Biology, Physics, Agricultural Sciences or related field. Proficiency in the language: Portuguese.	Graduates in: any field of knowledge. Master's degree in: Chemistry, Biology, Physics, Agricultural Sciences, or related field. Proficiency in Portuguese.
Plant Biotechnology	Graduates in Plant Biotechnology, Agricultural Sciences, Biological Sciences, and related fields. Proficiency in Portuguese or Spanish.	Master's degree in Plant Biotechnology, Agricultural Sciences, Biological Sciences, and related fields. Proficiency in Portuguese or Spanish.
Applied Botany	Graduates in Biological Sciences, Agricultural Sciences, or related fields. Proficiency in Portuguese, English, or Spanish.	Graduates in Biological Sciences, Agricultural Sciences, or related fields. Master's degree in Botany, Plant Biology, or related fields. Proficiency in Portuguese, English, or Spanish.
Computer Science	Graduates in: Computer Science, Information Systems, Computer Engineering, Statistics, Computational Mathematics, Electrical Engineering, or related field. Proficiency in Portuguese or English.	Does not offer a doctoral program
Soil Science	Graduates in: Agronomy, Environmental Engineering, Forestry Engineering, Agricultural Engineering, or related fields. Proficiency in Portuguese, English, or Spanish.	Graduates in: Agronomy, Environmental Engineering, Forestry Engineering, Agricultural Engineering, or related field. Master's degree in: Soil Science or related field. Proficiency in Portuguese, English, or Spanish.
Food Science	Graduates in: Agricultural Sciences, Exact Sciences, Biological Sciences, and Health Sciences, or in related areas of knowledge in Food.	Graduates in: Agricultural Sciences, Exact Sciences, Biological Sciences, and Health Sciences or in related areas of knowledge in Food.

	Proficiency in Portuguese.	Master's degree in: Food Science, Engineering, or Technology or in related areas of knowledge in Food. Proficiency in Portuguese.
Wood Science and Technology	Graduates in Forestry Engineering, Wood Industrial Engineering, Wood Technology, Agricultural Engineering, Agronomy, Civil Engineering, Architecture, Biology, Biological Sciences, Design, Physics, Chemistry, Mathematics, Chemical Engineering, Mechanical Engineering, Production Engineering, Electrical Engineering, Materials Engineering, or professionals from related fields. Language proficiency is not required, but the candidate should be aware that most courses will be offered in Portuguese and some in English.	Master's degree in Agronomy; Agrochemistry; Architecture; Biology; Plant Biotechnology; Biological Sciences; Forest Sciences; Wood Science and Technology; Product Design; Agricultural Engineering; Biomaterials Engineering; Civil Engineering; Electrical Engineering; Forestry Engineering; Materials Engineering; Naval Engineering; Production Engineering; Chemical Engineering; Safety Engineering; Systems Engineering; Statistics; Crop Science; Physics; Mathematics; Chemistry; Animal Science; and courses related to lignocellulosic materials. Language proficiency is not required, but the candidate should be aware that most courses will be offered in Portuguese and some in English.
Health Sciences	Graduates in: Medicine, Veterinary Medicine, Dentistry, Nutrition, Physiotherapy, Pharmacy and Biochemistry, Physical Education, Occupational Therapy, Biological Sciences, Biomedicine, Nursing, Speech Therapy, Psychology, Social Work, or related field. Proficiency in English.	Does not offer a doctoral course.
Veterinary Sciences	Graduates in Veterinary Medicine or related fields. Language Proficiency: Portuguese.	Graduates in Veterinary Medicine or related fields. Master's degree in Veterinary Medicine or related field. Language proficiency: Portuguese.
Applied Ecology	Graduates in any field. Proficiency in Portuguese or Spanish.	Graduates in any field. Master's degree in any field. Proficiency in Portuguese or Spanish.
Education	Graduates in: Teaching and/or Bachelor's degree programs. Proficiency in English.	Does not offer a doctoral program.

Scientific and Environmental Education	Graduates in: All areas. Proficiency in: Portuguese and Spanish.	Does not offer a doctoral program.
Agricultural Engineering	Graduates in Agricultural Engineering or related fields. Proficiency in Portuguese, English, or Spanish.	Graduates in: Agricultural Engineering or related field. Master's degree in: Agricultural Engineering or related field. Language proficiency: Portuguese, English or Spanish
Environmental Engineering	Graduates in: Engineering, Biology, Chemistry, Physics, Meteorology, Geology, and related fields. Proficiency in Portuguese.	Does not offer a doctoral program.
Food Engineering	Graduates in Food Engineering, Agroindustrial Engineering, Chemical Engineering, Materials Engineering, Bioprocess Engineering, Agricultural Engineering.	Does not offer a doctoral program.
Biomaterials Engineering	Graduates in: Forestry Engineering, Food Engineering, Materials Engineering, Civil Engineering, Agronomy, Agricultural Engineering, Chemical Engineering, Mechanical Engineering, Physics, Chemistry, Physical Engineering, and related fields. Proficiency in: Portuguese or English.	Graduates in: Forestry Engineering, Food Engineering, Materials Engineering, Civil Engineering, Agronomy, Agricultural Engineering, Chemical Engineering, Mechanical Engineering, Physics, Chemistry, Physical Engineering and related areas. Master's degree in: Forestry Engineering, Food Engineering, Materials Engineering, Civil Engineering, Agronomy, Agricultural Engineering, Chemical Engineering, Mechanical Engineering, Physics, Chemistry, Physical Engineering and related areas. Language proficiency: Portuguese or English
Systems and Automation Engineering	Systems Engineering, Electrical Engineering, Control and Automation Engineering, Mechanical Engineering, Production Engineering, Mechatronics Engineering, Electronic Engineering, Agricultural Engineering, Computer Engineering, Computer Science, Biomedical Engineering, Information Systems, Physical Engineering, or related fields. Proficiency in: English.	Does not offer a doctoral program.
Forestry Engineering	Graduates in any field of knowledge. Proficiency in: English.	Graduates in any area of knowledge. Master's degree in any area of knowledge. Language proficiency: English

Chemical and Materials Engineering	Graduates in: Chemical Engineering, Materials Engineering, Civil Engineering, Environmental Engineering, Chemistry, Physics, Architecture, Mechanical Engineering, Production Engineering, or professionals from related fields. Language Proficiency: English and Spanish.	Does not offer a doctoral program.
Teaching of Sciences and Mathematics Education	Undergraduate degree in one of the following areas: Sciences, Biological Sciences, Physics, Mathematics, Pedagogy, Chemistry. Proficiency in: English	Does not offer a doctoral program.
Entomology	Graduates in: Agronomy, Biology, Forestry Engineering, or related fields. Proficiency in: Portuguese, English, Spanish.	Graduates in: Agronomy, Biology, Forestry Engineering or a related field. Master's degree in: Entomology, Plant Health, Plant Defense or related field. Language proficiency: Portuguese, English, Spanish
Statistics and Agricultural Experimentation	Graduates in: Agronomy, Statistics, Mathematics, or related fields. Proficiency in Portuguese.	Graduates in: Agronomy or Statistics or Mathematics or related areas. Master's degree in: Agronomy or Statistics or Mathematics or related areas. Language proficiency: Portuguese
Philosophy	Graduates in: Philosophy or related fields (humanities, arts, social sciences, letters, law, administration, public administration, pedagogy, psychology). Good comprehension of the Portuguese language. Proficiency in either Portuguese, Spanish, Italian, French, or English.	Does not offer a doctoral program.
Plant Physiology	Undergraduate in any field of knowledge.	Bachelor's degree in any area of knowledge Master's degree in any graduate program in the major Agricultural areas, Biodiversity, Biological Sciences, Ecology and Conservation, Geosciences, Exact Sciences and areas related to these.
Plant Pathology	Graduates in: Biology, Agroecology, Agronomy, or Forestry Engineering, or related fields.	Graduates in: Biology, Agroecology, Agronomy or Forestry Engineering. Master's degree in: Plant Pathology or any of the

	Proficiency in English.	following areas: Plant Health, Plant Protection, Plant Production, Crop Science or Biotechnology, Microbiology with a dissertation in the area of Plant Pathology. Language proficiency: English
Crop Science	Graduates in: Agronomy or courses in the fields of Agricultural Sciences, Biological Sciences (Bachelor's and Teaching degrees). Basic proficiency in Portuguese is required.	Graduates in: Agronomy or courses in the areas of Agricultural Sciences, Biological Sciences (Bachelor's and Teaching Degree). Master's degree in: Agronomy/Crop Science or Courses in the areas of Agricultural Sciences. Language proficiency: Basic Portuguese
Genetics and Plant Breeding	Graduate in: Agronomy, Biology, Biotechnology, Forestry Engineering, or Animal Science. Proficiency in the Portuguese language is required.	For the lines of research in Plant Cytogenetics and Genomics and Molecular Genetics of Plants and Phytopathogens it is necessary to have a master's degree in: Botany, Cellular Biology, Molecular Biology, Biotechnology, Environmental Sciences, Forestry Sciences, Crop Science, Plant Pathology, Genetics and Breeding, Genetics and Plant Breeding, Plant Production, Genetic Resources and Animal Science. For the line of research in Plant Genetic Improvement, Quantitative Genetics and Biometrics it is necessary to have a master's degree in: Cellular Biology, Molecular Biology, Biotechnology, Forestry Sciences, Statistics and Experimentation, Crop Science, Genetics and Breeding, Genetics and Plant Breeding, Plant Production, Genetic Resources and Animal Science. Language proficiency: Portuguese
Letters	Graduates in: Letters and the following related areas: History, Philosophy, Law, Arts, Pedagogy, Social Sciences, Psychology, Secretarial Studies, Anthropology, Social Communication and its specializations.	Does not offer a doctoral program.

	Language Proficiency in Portuguese, English, or Spanish.	
Agricultural Microbiology	Undergraduate courses in the areas of Biological Sciences/Engineering; Food Science/Engineering; Agronomy; and other courses whose areas may be correlated with the research lines of the PPMGA. Proficiency in English or Spanish.	Undergraduate courses in the areas of: Biological Sciences/Engineering(s); Food Science/Engineering; Agronomy and other courses whose areas can be correlated to PPMGA's lines of research. Master's degree courses: Biological Sciences/Engineering(s); Food Science/Engineering; Agronomy and other courses whose areas can be correlated to the PPMGA's lines of research. Proficiency in English or Spanish.
Medicinal, Aromatic and Condiment Plants	Graduates in: in: Agronomy, Biology, Pharmacy, Chemistry, Biotechnology, Nutrition, Environmental Engineering, Veterinary Medicine, Chemistry, Physiotherapy, Human Sciences, or related fields. Language proficiency: Portuguese/English	Bachelors in Agronomy, Biology, Pharmacy, Chemistry, Biotechnology, Nutrition, Environmental Engineering, Veterinary Medicine, Chemistry, Physiotherapy, Human Sciences or a related field. Master's degree in: Agronomy, Biology, Pharmacy, Chemistry, Biotechnology, Nutrition, Environmental Engineering, Veterinary Medicine, Health Sciences, Chemistry, Physiotherapy, Human Sciences or related area. Language proficiency: Portuguese/English
Water Resources	Graduates in Agronomy, Agricultural Engineering, Environmental Engineering, Sanitary Engineering, Civil Engineering, Water Engineering, Geology, Geography and other undergraduate courses related to the area of Water Resources.	Graduates in Agronomy, Agricultural Engineering, Environmental Engineering, Sanitary Engineering, Civil Engineering, Hydric Engineering, Geology, Geography and other undergraduate courses related to the area of Water Resources. Master's degree in Water Resources or related areas.
Animal Science	Graduates in: Zootechnics, Agronomy, Veterinary Medicine, Fisheries Engineering or related areas.	Graduates in: Animal Science, Agronomy, Veterinary Medicine, Fisheries Engineering or related areas. Master's degree in: Animal Science, Agronomy, Veterinary Medicine or related areas